Tanish Poddar

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Summary

Full Stack Developer and Software Engineer focused on shipping production-ready systems with clean APIs, efficient data pipelines, and scalable interfaces. Strong experience in backend-driven workflows, real-time systems, and applied AI, with a track record of building responsive, cross-platform web applications from conception to production. Comfortable operating in startup environments with ownership over design, implementation, and iteration.

Skills

Languages: Python, JavaScript, TypeScript
Frontend: Next.js, React, Tailwind CSS
Backend: Django REST Framework, Node.js, Express, Flask
Databases: PostgreSQL, MySQL, MongoDB, Firebase
AI / Systems: DuckDB, OpenCV, MediaPipe, LLM Integration, Computer Vision, NumPy
Tools: Git, Linux, Docker (basic), Vercel, Render, Shell Scripting
Core Strengths: System Design, API Design, Debugging, Performance Optimisation, Technical Communication

Experience

- Captain — AWS Cloud Club (SRMIST) Nov 2025 – Present
Transitioned CloudX into the officially recognised AWS Cloud Club by formalising structure and launch operations. Leading the AWS Ascend initiative, managing hands-on labs, certification preparation, and deployment demos with AWS community speakers.

- Software Developer Intern — National Informatics Centre (NIC), MoSJE Dec 2025 – Jan 2026
Developed and maintained a production-grade employee management system for internal government workflows. Implemented REST APIs with validation, pagination, and role-based access control. Worked on secure authentication flows and ensured consistency across employee records under operational constraints.

- Frontend Developer — Sintora Ventures Dec 2025 – Feb 2026
Developed responsive frontend pages and integrated APIs for internal company systems. Handled loading states, error scenarios, and edge cases to ensure reliable UI-to-API interactions. Worked alongside backend teams to adapt frontend logic to evolving API contracts.

- Software Development Engineer Intern — DeskOS (Remote) Aug 2025 – Sep 2025
Engineered and deployed a WhatsApp-based visitor and guest notification system using Django REST Framework and Sensy API. Streamlined approval workflows, reducing manual coordination time from 4–6 minutes to under 30 seconds. Built an event-driven notification pipeline sustaining ~2,000+ messages/day with ~98% delivery reliability across arrival, invite, and kiosk events.

- Next.js Developer — LinksUs (Remote) Jul 2025 – Sep 2025
Refactored frontend architecture and state management, improving onboarding and dashboard responsiveness by ~35–40%. Enhanced form and table interactions by up to 50% through render optimisation and reusable component patterns. Collaborated closely with backend APIs to ensure predictable UI behaviour and data consistency.

Projects

- NIC Employee Management System Next.js, Node.js, TypeScript
Built a production-grade employee management platform during internship at NIC. Designed REST APIs with role-based access control, pagination, and input validation for administrative workflows. Delivered features aligned with real government operational requirements and timelines.

- SeatFinderSRM — Real-Time Library Seat Booking Next.js, TypeScript, Firebase
Architected a real-time seat allocation system supporting concurrent users without booking conflicts. Implemented authentication and permission logic for student and admin roles. Handled race conditions using transactional updates and optimised read/write patterns to reduce latency.

- Nexus AI — Voice-Driven Data Analytics Platform Next.js, TypeScript, DuckDB, LLM APIs
Built a natural-language analytics engine enabling voice-based queries over arbitrary CSV datasets. Implemented schema inference and zero-configuration data ingestion. Designed a self-healing SQL pipeline with automatic error detection and retry logic. Improved analytical query performance using DuckDB with in-memory caching for low-latency execution.

- VirtualShell — Browser-Based Linux Terminal Next.js, WebContainer
Developed a web-based Linux terminal simulator running entirely in the browser. Implemented command execution,

file system interactions, and sandboxed process isolation. Addressed performance and security constraints inherent to in-browser execution environments. Collaborated with product and design stakeholders to translate requirements into production-ready features.

- PosturePro — Real-Time Posture Detection System   Python, OpenCV, MediaPipe

Built a real-time posture monitoring system using computer vision to analyse body landmarks. Designed posture scoring logic and alert mechanisms for corrective feedback. Optimised video frame processing to maintain low-latency live inference.

- Python Mini Shell — Unix-Style Command Interpreter   Python

Implemented a Unix-like shell supporting built-in commands, piping, I/O redirection, and command history. Designed a command parsing and execution pipeline aligned with core operating system concepts. Added tab completion and process chaining to simulate realistic shell behaviour.

Education

SRM Institute of Science and Technology, Kattankulathur, India   2023 – 2027

Bachelor of Technology (B.Tech) in Computer Science Engineering

Relevant Coursework: Data Structures, Algorithms, DBMS, Operating Systems

Mother's Global School, New Delhi, India   2011 – 2023

High School (PCM & Computer Science)

Certifications

Accelerated Computer Science Fundamentals — University of Illinois Urbana-Champaign (2024)

Cybersecurity for Everyone — University of Maryland (2024)

AWS Academy Cloud Foundations — Amazon Web Services (2023)

Languages

English (Professional Proficiency)   Hindi (Native)